JamBuster jam mitigation coring system

Produce quality core samples while reducing coring costs

The Baker Hughes **JamBuster™ jam mitigation coring system** incorporates telescoping inner core barrel sleeves into the **HT series™ heavy-duty core barrels** to eliminate the effects of core jamming. Concentric inner core barrel sleeves automatically telescope if a core becomes jammed in the core barrel, allowing coring to continue without interruption.

The JamBuster coring system can be run with new generation core bits and **CoreGard™ low-invasion coring systems**, and can be combined with gel coring technology. Core diameters of $2^{1}/_{8}$-in. to 5¼-in. can be obtained with various barrel configurations.

Depending upon the barrel size, the system can accommodate three to four successive jams before needing to pull out of the hole, reducing coring trips needed to recover the same amount of core.

The JamBuster system's aluminum inner sleeves are secured to the non-rotating inner barrel by shear pins. Shear strength is set according to formation properties. When a jam is encountered within the sleeve, increasing weight-on-bit (WOB) causes the inner shear pins to shear, releasing the sleeve and jammed core to telescope up within the barrel.

As the new core is cut, the second sleeve begins to fill. A second jam will shear the pins securing the remaining JamBuster system sleeve, releasing it to telescope up the inner barrel. When used in conjunction with a core jam indicator tool, a third jam or filled barrel will activate an internal jam indicator valve. This sends an increased standpipe pressure to the surface as a signal that the coring assembly must be pulled from the hole.

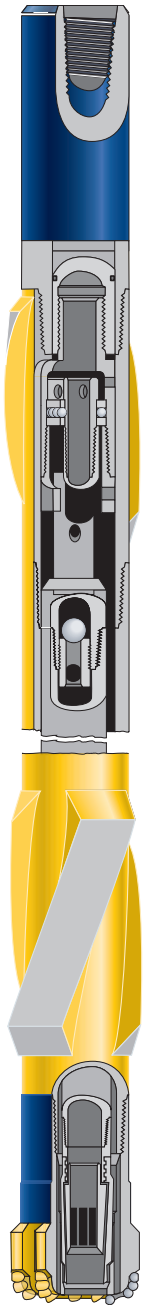
The JamBuster jam mitigation coring system reduces costs associated with coring to produce quality core samples, maximizing efficiency at the wellsite and reducing nonproductive rig time.

Applications

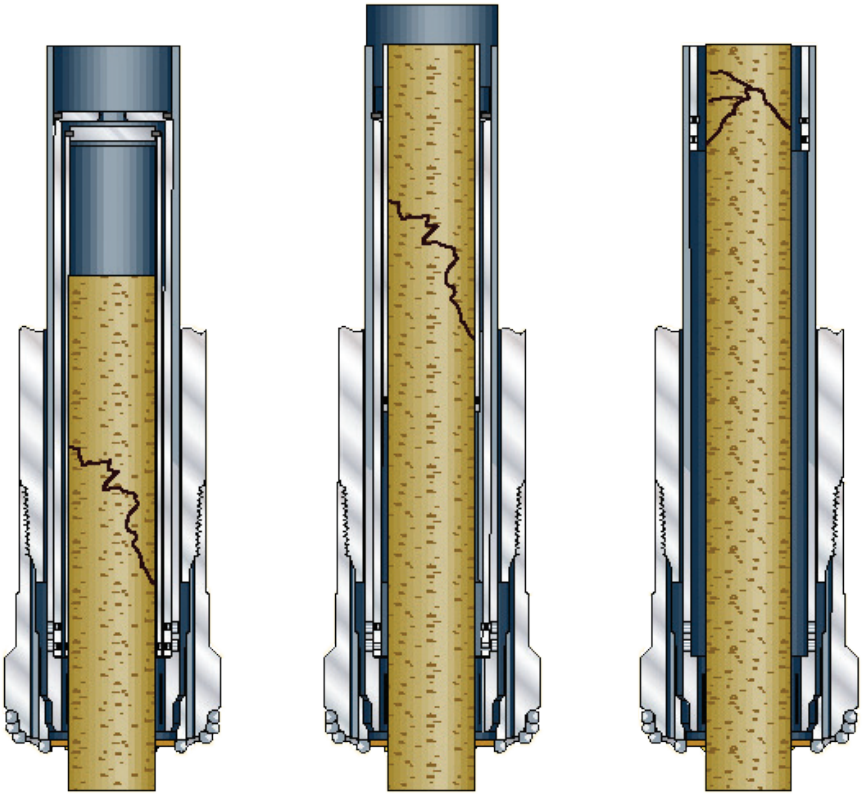
- Fractured formations
- Slanted formation faults
- Interbedded shales and expanded clays

Benefits

- Reduce coring trips with core barrel efficiencies
- Eliminate core sample milling with multiple jam capacity
- Enable enhanced efficiencies from conventional systems by enabling longer coring assemblies



The JamBuster system can be run in the HT10, HT12, HT30, HT30 Max, HT40, and HT60 core barrels.



First jam enters sleeves and shears the pins.

Freed inner sleeve telescopes up core barrel: second sleeve receives new core.

Second jam releases second telescoping inner sleeve. Coring continues until third jam occurs.

Succession of jams or filled sleeve will release first inner sleeve, then second inner sleeve, then signal that fixed core barrel is jammed or full.

Baker Hughes™